

Memorandum

Date: November 20, 2003

To: Kathy Hill
Fisheries Management District Supervisor
Department of Fish and Game
Region 2
1701 Nimbus Road, Suite A
Rancho Cordova, California 95670

From: Department of Water Resources

Subject: For Your Files: 1986 Lake Davis Creel Census

This memorandum describes an angler survey conducted at Lake Davis 17 years ago, but the data were never summarized or transmitted to agency files. We are making these data available now because of increased interest in the quality of the Lake Davis fishery prior to the illegal introduction of northern pike about 1994. This information will be useful in preparing environmental documentation supporting whatever action is taken by your department to eliminate northern pike from Lake Davis.

In 1986, California Department of Water Resources, Northern District student assistants Jerry Tittel, Greg Grim, Jennifer Voester, and Carol Janeway working under my direction, conducted an angler survey at Lake Davis, Plumas County. These surveys were conducted on 28 days from April 26 through November 2, 1986.

During this period, 542 anglers were interviewed who had fished 1,811 hours, with an observed catch of 403 rainbow trout (0.22 trout per hour), 11 bass (both largemouth and smallmouth were observed), and 244 brown bullhead. In addition, 55 trout, 27 bass, and 103 brown bullhead were reported caught, or reported caught and released.

Mean fork length of 379 measured rainbow trout was 31.9 cm (12.5 in.) (Figure 1), mean fork length of 83 brown bullheads was 27.0 cm (10.6 in.) (Figure 2), and mean fork length of 11 bass was 29.5 cm (11.6 in.) (Figure 3). The largest rainbow trout measured 47.5 cm fork length (18.7 in.).

Shore anglers totaled 249 anglers who had fished 630 hours and caught 96 rainbow trout (0.15 trout per hour) and 102 brown bullhead. They reported catching, or catching and releasing an additional six rainbow trout, 16 bass, and 45 brown bullhead.

Boat anglers totaled 293 anglers who had fished 1181 hours and caught 307 rainbow trout (0.26 trout per hour), 11 bass, and 142 brown bullhead. They reported catching, or catching and releasing 49 trout, 11 bass, and 58 brown bullhead.

About 54 percent of the anglers fished exclusively with bait, 26 percent with lures, 5 percent with flies and 15 percent used more than one type of terminal gear (usually bait and lures).

Nearly 29 percent of the anglers originated from out of state (mostly Reno and Sparks, Nevada) and about 26 percent were from the San Francisco Bay Area (Alameda, Contra Costa, Marin, Napa, Santa Clara, San Francisco, San Mateo, Solano and Sonoma Counties). Other anglers contacted at the lake were mostly from Northeast Counties (16 percent; Plumas and Lassen Counties), Sacramento Valley Counties (12 percent), and Mountain Counties (7 percent; mostly Placer), with the remaining 10 percent from other regions of California (Figure 4).

If you have any questions or require additional information regarding this survey, please contact me at (530) 529-7393 or www.hintonr@water.ca.gov.

ORIGINAL SIGNED BY

Ralph N. Hinton
Retired Annuitant

cc: Ken Kendargi
Feather River Area Biologist
Department of Fish and Game
Region 2
1701 Nimbus Road, Suite A
Rancho Cordova, California 95670

Armand Gonzales
Environmental Services Supervisor
Department of Fish and Game
Region 2
1701 Nimbus Road, Suite A
Rancho Cordova, California 95670

Lori Powers
Department of Fish and Game
Portola Field Office
Post Office Box 1858
209 Commercial Street
Portola, California 96122

FIGURE 1
Length-Frequency of Rainbow Trout
Lake Davis 1986

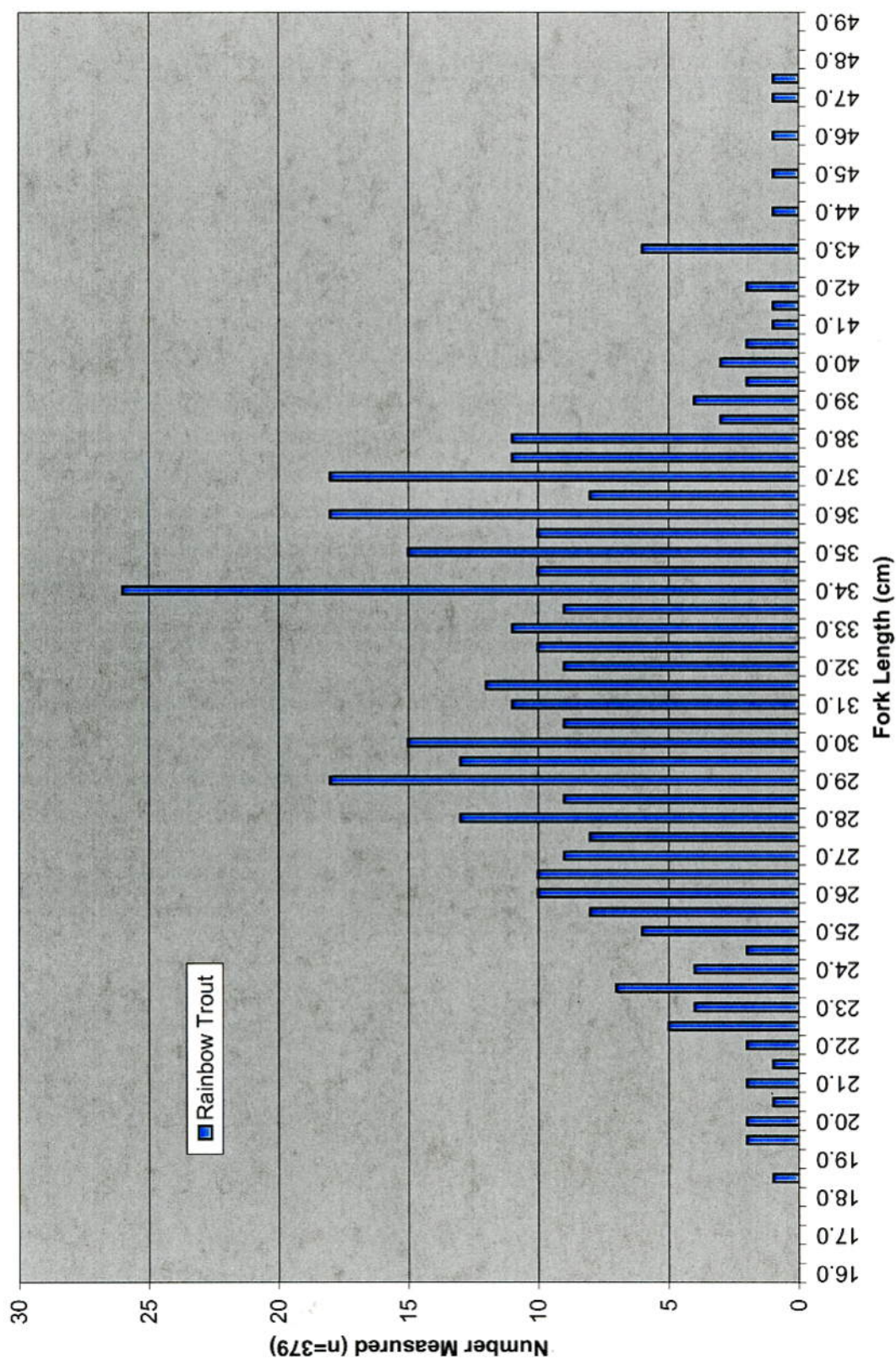


FIGURE 2
Length-Frequency of Brown Bullhead
Lake Davis 1986

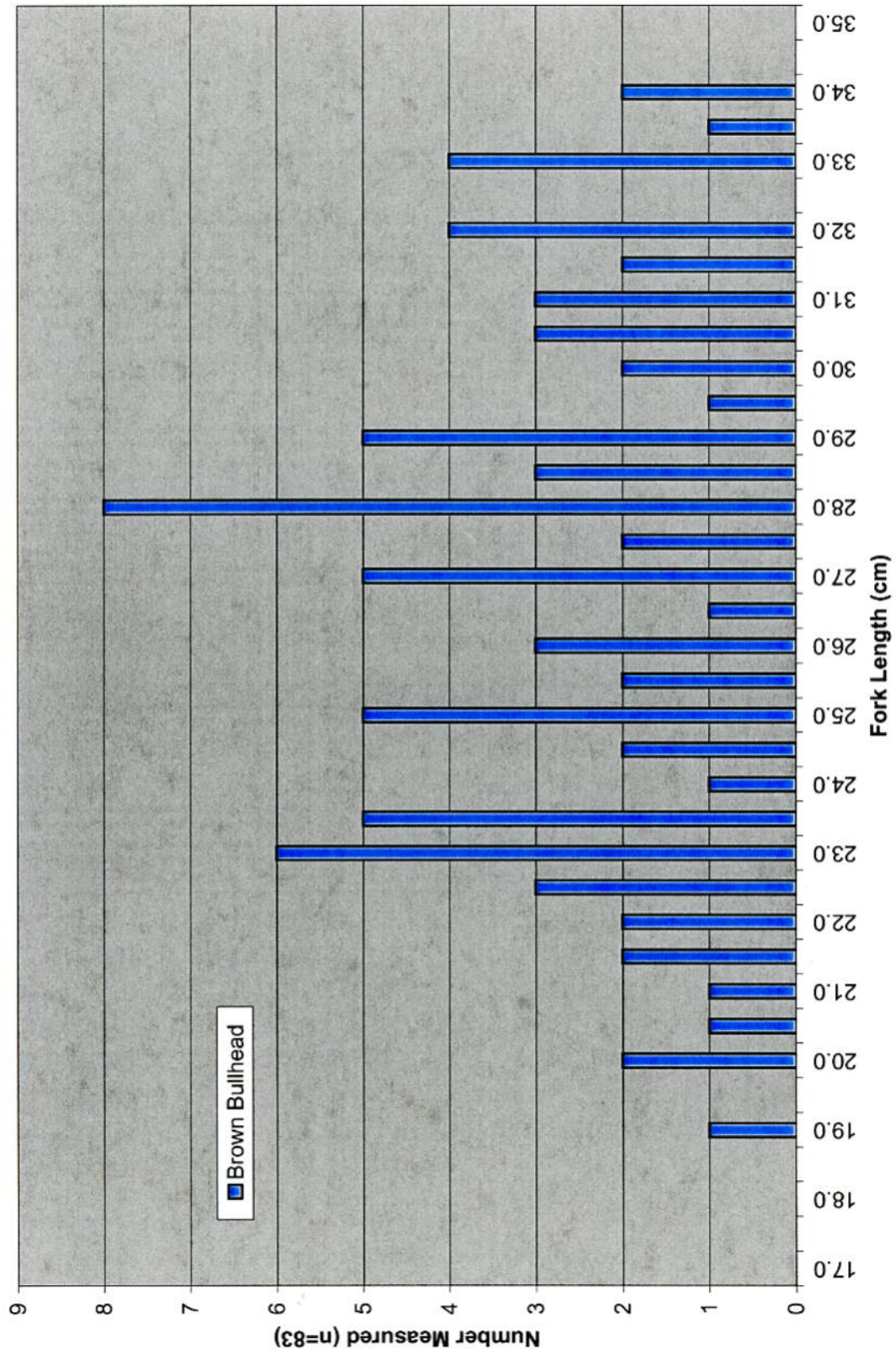
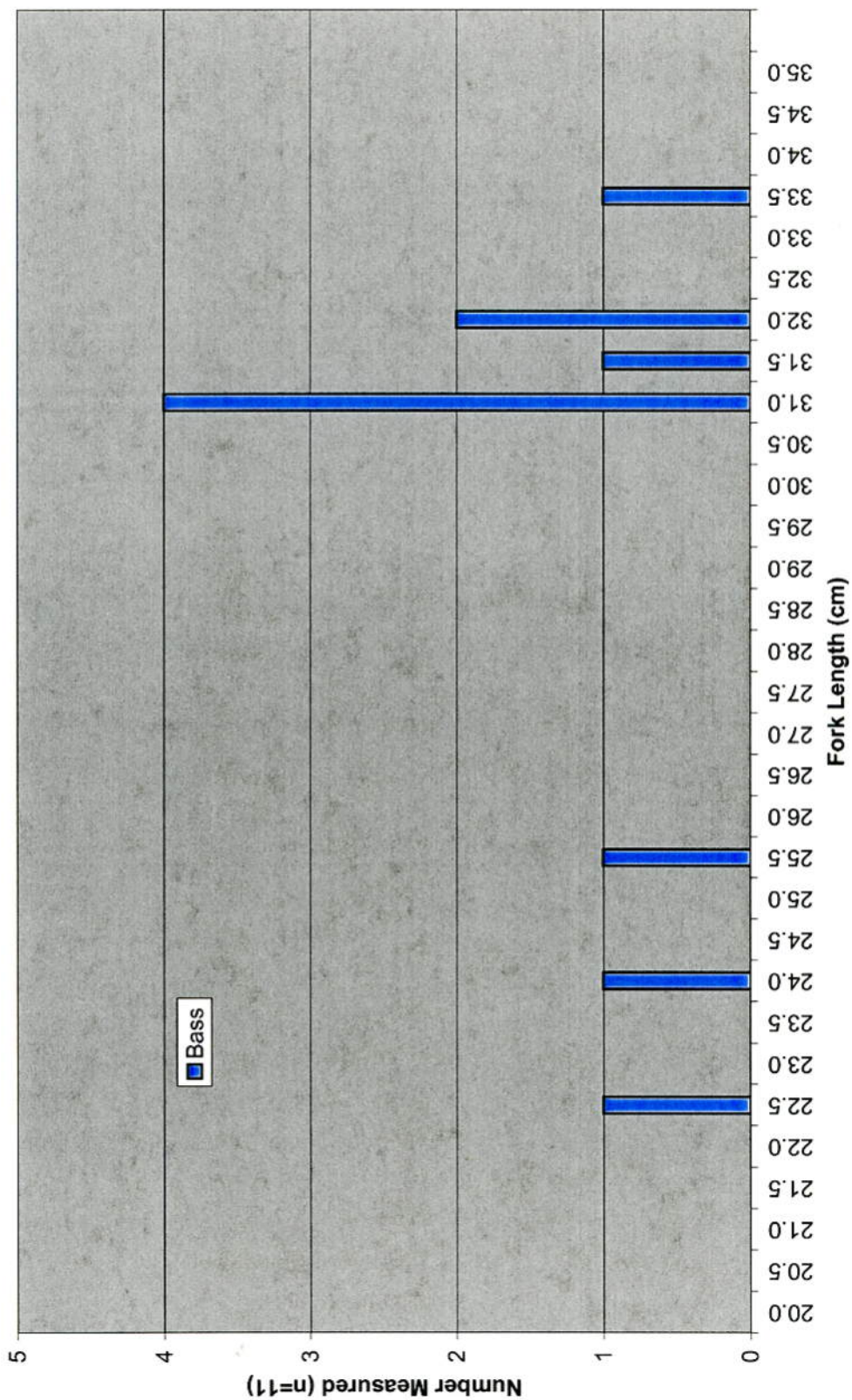


FIGURE 3
Length-Frequency of Measured Bass
Lake Davis 1986



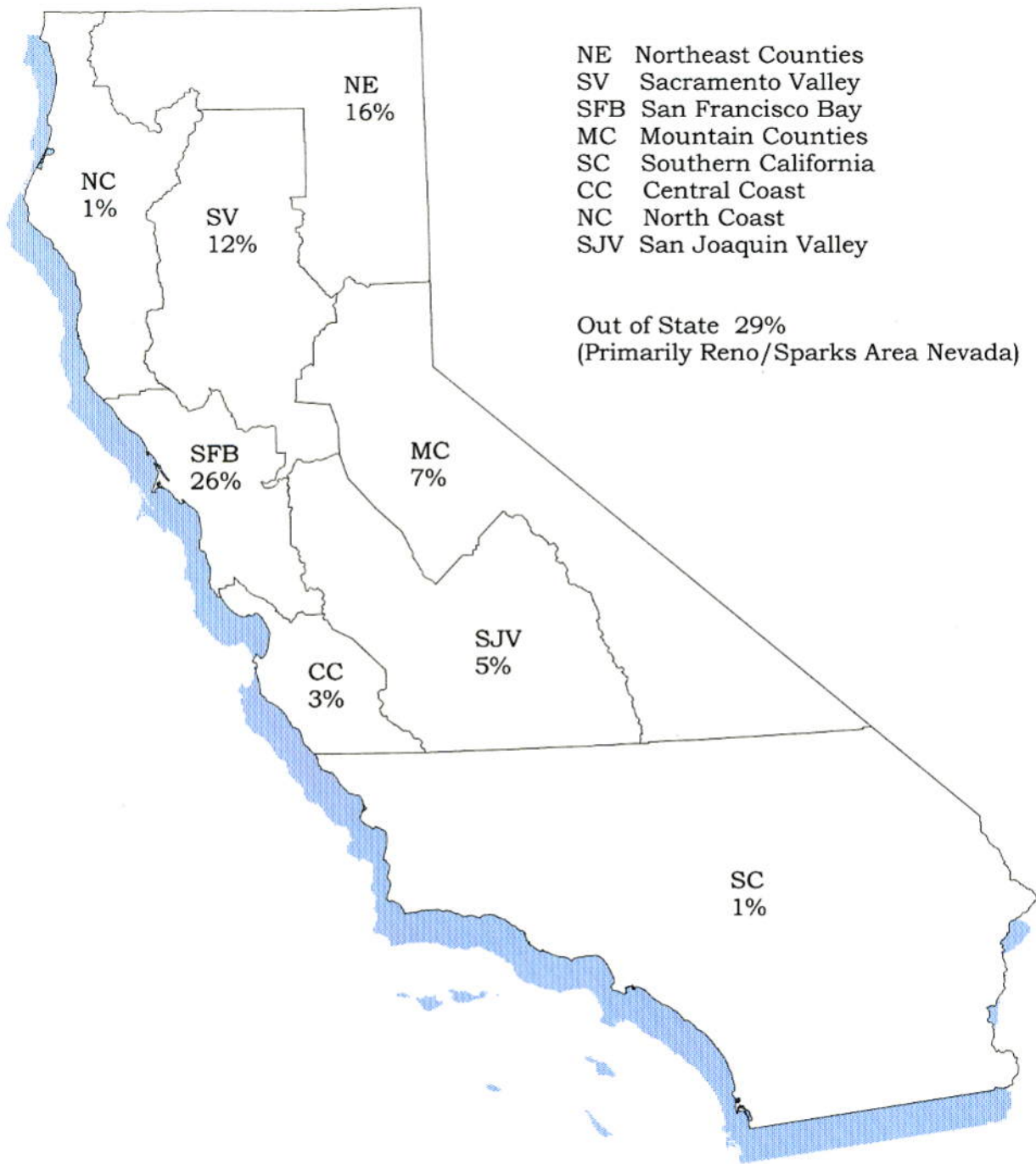


Figure 4 Lake Davis-Angler Origin by County Groups-1986

RECREATION SURVEY LOCATION: Lake Davis - 1986 Angler Origin

1 ALAMEDA	21	NORTHEAST COUNTIES	
2 ALPINE	0	SISKIYOU	0
3 AMADOR	3	MODOC	0
4 BUTTE	4	LASSEN	6
5 CALAVERAS	0	PLUMAS	82
6 COLUSA	2	TOTAL:	88
7 CONTRA COSTA	16	PERCENT:	16.48%
8 DEL NORTE	0	NORTH COAST	
9 EL DORADO	6	DEL NORTE	0
10 FRESNO	10	HUMBOLDT	0
11 GLENN	0	TRINITY	0
12 HUMBOLDT	0	MENDOCINO	4
13 IMPERIAL	0	TOTAL:	4
14 INYO	0	PERCENT:	0.75%
15 KERN	2	SACRAMENTO VALLEY	
16 KINGS	2	SHASTA	5
17 LAKE	5	TEHAMA	2
18 LASSEN	6	GLENN	0
19 LOS ANGELES	0	BUTTE	4
20 MADERA	0	LAKE	5
21 MARIN	11	COLUSA	2
22 MARIPOSA	0	SUTTER	2
23 MENDOCINO	4	YUBA	4
24 MERCED	2	YOLO	4
25 MODOC	0	SACRAMENTO	35
26 MONO	0	TOTAL:	63
27 MONTEREY	6	PERCENT:	11.80%
28 NAPA	13	SAN FRANCISCO BAY AREA	
29 NEVADA	4	SONOMA	14
30 ORANGE	0	NAPA	13
31 PLACER	14	SOLANO	6
32 PLUMAS	82	MARIN	11
33 RIVERSIDE	0	CONTRA COSTA	16
34 SACRAMENTO	35	ALAMEDA	21
35 SAN BENITO	0	SAN MATEO	17
36 SAN BERNARDIN	0	SANTA CLARA	33
37 SAN DIEGO	4	SAN FRANCISCO	8
38 SAN FRANCISCO	8	TOTAL:	139
39 SAN JOAQUIN	10	PERCENT:	26.03%
40 SAN LUIS OBISPO	0	SAN JOAQUIN VALLEY	
41 SAN MATEO	17	SAN JOAQUIN	10
42 SANTA BARBARA	0	STANISLAUS	2
43 SANTA CLARA	33	MERCED	2
44 SANTA CRUZ	12	MADERA	0
45 SHASTA	5	FRESNO	10
46 SIERRA	9	KINGS	2
47 SISKIYOU	0	TULARE	0
48 SOLANO	6	TOTAL:	26
49 SONOMA	14	PERCENT:	4.87%

50 STANISLAUS	2
51 SUTTER	2
52 TEHAMA	2
53 TRINITY	0
54 TULARE	0
55 TUOLUMNE	0
56 VENTURA	0
57 YOLO	4
58 YUBA	4
59 OUT OF STATE	154
60 OUT OF THE US	0
Not Recorded	5
Total	539

CENTRAL COAST	
SANTA CRUZ	12
MONTEREY	6
SAN BENITO	0
TOTAL:	18
PERCENT:	3.37%
SOUTHERN CALIFORNIA	
SAN LUIS OBISPO	0
SANTA BARBARA	0
KERN	2
VENTURA	0
LOS ANGELES	0
ORANGE	0
SAN BERNARDINO	0
RIVERSIDE	0
SAN DIEGO	4
IMPERIAL	0
TOTAL:	6
PERCENT:	1.12%
MOUNTAIN COUNTIES	
SEIRRA	9
NEVADA	4
PLACER	14
EL DORADO	6
AMADOR	3
CALAVERAS	0
ALPINE	0
TUOLUMNE	0
MARIPOSA	0
MONO	0
TOTAL:	36
PERCENT:	6.74%
TOTAL IN-STATE:	380
PERCENT:	71.16%
OUT OF STATE:	154
PERCENT:	28.84%
OUT OF THE US:	0
PERCENT:	0.00%
GRAND TOTAL:	534
TOTAL PERCENT:	100.00%